

End-of-year review: data, chance and algebra; maths-journal reflection

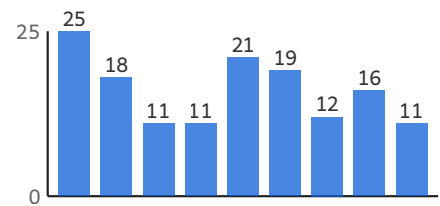
HOW TO ANSWER TODAY

- **Mode (most common).** The mode is the number that appears MOST OFTEN.
2, 2, 3, 5, 2, 7 → 2 appears three times → mode is 2
- **Solve for x.** Do the OPPOSITE operation to both sides. + becomes -; × becomes ÷.
 $x + 7 = 15 \rightarrow x = 15 - 7 = 8$ $3x = 21 \rightarrow x = 21 \div 3 = 7$

 STRETCH PROBLEMS

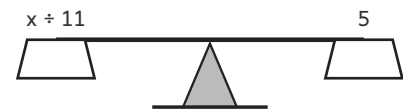
- 1** Aoife is threading beads to make a Halloween necklace for the school display. Her pattern so far is red, yellow, blue, red, yellow, blue, red, yellow. What colour bead comes next, and what is the repeating unit?

- 2 Mr Daly's class counted the number of pupils walking to school on nine different mornings: 25, 18, 11, 11, 21, 19, 12, 16 and 11. What is the mode of these counts?



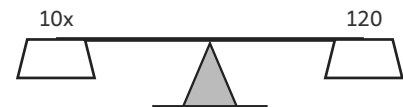
- 3** Cian is threading beads to make a bookmark. So far the pattern reads circle, square, circle, square, circle, square, ____ . What bead comes next, and what is the repeating unit?

- 4 On the school tour to the Cliffs of Moher, 5th class share all their tour photos equally into 11 albums. Each album ends up with 5 photos. If x stands for the total number of photos, then $x \div 11 = 5$. How many photos did they take?



Find x so the scale balances.

- 5 Aoife's granny bakes trays of barmbrack for a Halloween sale. Each tray holds 10 slices, and there are 120 slices in total. If x is the number of trays, then $10x = 120$. How many trays did she bake?



Find x so the scale balances.